

**Size:** 1,090 acres  
**Mission:** Serve as Reserve Naval Air Station for aviation training activities  
**HRS Score:** 50.00; placed on NPL in September 1995  
**IAG Status:** Federal Facility Agreement under negotiation  
**Contaminants:** Heavy metals, PCBs, petroleum/oil/lubricants, and solvents  
**Media Affected:** Groundwater, surface water, sediment, and soil  
**Funding to Date:** \$4.7 million  
**Estimated Cost to Completion (Completion Year):** \$32.8 million (FY2016)  
**Final Remedy in Place or Response Complete Date for All Sites:** FY2009



*Willow Grove, Pennsylvania*

## Restoration Background

Environmental studies at this installation identified 11 CERCLA sites and 2 RCRA sites. Site types include landfills, underground storage tanks (USTs), and a fire training area. In an effort to close out sites that pose no risk, decision documents recommending no further action (NFA) at five sites have been submitted for review.

In FY86, Preliminary Assessments (PAs) were completed for nine sites. Five of these sites were recommended for further investigation because of potential contamination of surface water and groundwater. In FY90, all nine sites were included in a Site Inspection (SI), along with a new site (Navy Fuel Farm). An Expanded Site Inspection was recommended for Site 7 because of trace levels of methylene chloride. Remedial Investigations and Feasibility Studies (RI/FSs) were recommended for Sites 1, 2, 3, and 5. Decision documents recommending NFA for Sites 4, 6, 7, 8, and 9 were submitted to EPA Region 3.

In FY92, two 210,000-gallon USTs were removed from the Navy Fuel Farm (Site 10). A pilot-scale recovery system for removal of free product was installed in FY93 and operated through FY95.

In FY93, an RI for Sites 1, 2, 3, and 5 recommended a Phase II RI/FS. In FY95, a Phase II RI work plan was issued for these four sites and for Site 11. Site 11 was later removed from the work plan. Also in FY95, 6,000 cubic yards of soil was removed from Site 10. A state-approved plan allowed the removed soil to be spread on another area at the installation. In FY96, the work proposed for four sites was approved. The pilot study on free-product recovery at Site 10 was completed.

During FY97, a draft site management plan (SMP) and the Phase II RI

work plan were completed. A design-and-build approach for Site 10 allowed the Remedial Action to be awarded with the Remedial Design and completed under one delivery order. Vacuum-enhanced recovery of light nonaqueous-phase liquids with full-time water table depression, and immunoassay kits for polychlorinated biphenyl (PCB) screening, accelerated characterization and fieldwork. Scoping meetings were held with regulators to expedite finalization of the Phase II RI work plan.

The installation formed a technical review committee in FY90. In FY91, it established an administrative record and an information repository. In FY95, the installation established a Restoration Advisory Board (RAB). In FY97, a community relations plan was developed.

## FY98 Restoration Progress

The SMP was not finalized as planned because no review comments were submitted by EPA Region 3. EPA also did not initiate Federal Facility Agreement (FFA) negotiations as expected. A draft Phase II RI report was submitted to regulatory and RAB members for review. The FS and the Record of Decision (ROD) for Site 1 were not accomplished because finalization of the Phase II RI report was delayed. RI/FS activities for Site 11 were not initiated. These activities are on hold, pending receipt of regulatory comments on four other sites. Fieldwork for Site 11 will be added to the Phase II RI work plan to minimize mobilization costs. The Interim Remedial Action (IRA) for PCB-contaminated soil at Site 1 was awarded to a contractor.

Three RAB meetings were held. One meeting was dedicated to training RAB members on toxicological and risk assessment terminology to aid in their review of the draft Phase II RI report.

## Plan of Action

- Discuss initiation of FFA negotiations with EPA Region 3 in FY99
- Finalize Phase II RI report in FY99
- Initiate individual FS development for specific media at sites, as dictated by RAB prioritization, in FY99
- Finalize SMP using information from finalized Phase II RI report in FY99
- Initiate RI/FS activities for Site 11 along with requested fieldwork for Installation Restoration Program sites in FY99
- Complete IRA for PCB-contaminated soil at Site 1 in FY99
- Hold quarterly RAB meetings in FY99

## FY99 FUNDING BY PHASE AND RELATIVE RISK

